

61. A process for producing a reinforced slab of stone material, comprising the steps

of:

a. providing a slab of stone material having a substantially smooth rear face

free of grooves or recesses:

b. providing a first layer of non-twisted linear reinforcing elements coated

with a resin, the percentage of resin to non-twisted linear reinforcing elements in the first layer
being at most 50:50 by weight:

c. providing a second layer of non-twisted linear reinforcing elements coated

with a resin, the percentage of resin to non-twisted linear reinforcing elements in the second layer
being at most 50:50 by weight:

d. applying the first and second layers of non-twisted linear reinforcing

elements to the rear face of the slab such that the second layer is between the first layer and the
rear face of the slab; and

e. hardening the resin.

65. A process for producing a reinforced slab of stone material, comprising the steps

of:

a. providing a slab of stone material having a substantially smooth rear face

free of grooves or recesses:

b. forming grooves or recesses on the rear face of the slab;

recapture?

c. providing a first reinforcing layer of non-twisted linear reinforcing

elements coated with a resin, the percentage of resin to non-twisted linear reinforcing elements in
the first layer being at most 50:50 by weight;

E3

- d. providing a second reinforcing layer of linear reinforcing elements;
- e. applying the first and second reinforcing layers to the rear face of the slab
- such that the second layer is between the first layer and the rear face of the slab and the
- reinforcing elements of the second reinforcing layer are disposed in the grooves or recesses; and
- f. hardening the resin.

E4

C. Add new claims 66-73 as follows:

- 66. The process according to claim 65, wherein the grooves or recesses form a grid.
- 67. The process according to claim 65, wherein the linear reinforcing elements of the
second reinforcing layer include glass fiber yarns.
- 68. The process according to claim 65, wherein the linear reinforcing elements of the
second reinforcing layer include rods or bars of extruded fibers of glass and resin.
- 69. The process according to claim 68, wherein each of the linear rods or bars has a
diameter of 2 to 2.5 mm.
- 70. The process according to claim 68, wherein each of the linear rods or bars
comprises 68% glass and 32% resin, the percentages being expressed by weight.
- 71. The process according to claim 67, wherein the grooves or recesses have a depth
dimension of 3 to 4 mm and the glass fiber yarns comprise 4800 TEX (19.6 g/m) glass threads.